Claim Listing:

This Claim Listing reflects all claim amendments and replaces all prior versions,

and listings, of claims in the application. Material to be inserted is in bold and underline,

and material to be deleted is in strikeout or (if the deletion is of five or fewer consecutive

characters or would be difficult to see) in double brackets [[]].

In brief, claims 5, 21, 34, 35, and 39 have been amended.

1.-4. (Canceled)

(Currently Amended) A method of compressing a bone, comprising:

selecting a bone screw including

a shank including a thread disposed externally for threaded engagement

with bone, the shank defining a long axis and a direction of advancement into

bone, and

a head connected to the shank and defining a plurality of shoulders

disposed at spaced positions generally along the head, each shoulder facing

generally toward the direction of advancement and extending partially or

completely around the head to define a respective plane disposed orthogonally to

the long axis; and

installing the bone screw as a unit in a bone such that a portion of the bone near

the head is engaged by two or more of the shoulders and is urged toward a portion of

the bone near the shank

6. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shank

has a proximal portion adjacent the head and a distal portion spaced from the head, and

wherein the thread is restricted to the distal portion.

7. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw that is self-tapping.

8. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shank

includes a tip region configured to cut a hole in the bone as the bone screw is advanced

into the bone.

9. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shoulders

are formed by a plurality of ridges, a plurality of grooves, or both.

10. (Canceled)

11. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which one or more

of the plurality of shoulders extend in a closed loop corresponding to a circle.

12. (Canceled)

13. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the plurality

of shoulders have a corresponding plurality of diameters, and wherein the diameters

decrease successively toward the shank.

14. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head is

shaped generally as a frustum of a cone.

15. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head

includes a plurality of steps defined by stepwise decreases in the diameter of the head,

and wherein the plurality of shoulders are included in the plurality of steps.

(Canceled)

17. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shank

and the head define opposing ends of the bone screw and further define an axial bore

extending between the opposing ends.

18. (Previously Presented) The method of claim 17, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the axial bore

includes a widened region configured to receive a tool that engages the head.

19 (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head and

the shank are both part of the same monolithic structure.

20. (Previously Presented) The method of claim 5, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head is

rotatably and/or slidably connected to the shank.

21 (Currently Amended) A method of compressing a bone, comprising:

selecting a bone screw including

a shank including a proximal region, a distal region, and a thread disposed

externally for threaded engagement with bone and restricted to the distal region,

and

a head connected to the shank and spaced from the thread by the

proximal region, the head defining a plurality of spaced shoulders disposed

generally along the head, each shoulder extending in a respective plane to

describe at least an arc of a circle; and

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installing the bone screw as a unit in a bone such that a portion of the bone near

the head is engaged by two or more of the shoulders and is urged toward a portion of

the bone near the shank.

22. (Previously Presented) The method of claim 21, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shoulders

are defined by a plurality of ridges, a plurality of grooves, or both.

23. (Previously Presented) The method of claim 21, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shoulders

describe complete circles.

24. (Previously Presented) The method of claim 21, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head

includes a plurality of steps defined by stepwise decreases in the diameter of the head,

and wherein the plurality of shoulders are included in the plurality of steps.

25. (Previously Presented) The method of claim 21, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head is

generally frustoconical in shape.

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26. (Previously Presented) The method of claim 21, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the shank

defines a long axis, wherein the head has a maximum diameter, wherein the head has

an axial length that is measured parallel to the long axis, wherein the head has an

aspect ratio defined by the axial length of the head relative to the maximum diameter of

the head, and wherein the aspect ratio is at least 1:1.

27 (Canceled)

28 (Previously Presented) A method of compressing a bone with a bone

screw, comprising:

forming a hole in the bone:

selecting a bone screw having a shank and a head connected to the shank, the

head defining a plurality of shoulders disposed at spaced positions generally along the

head, each shoulder facing generally toward the direction of advancement and

extending partially or completely around the head to define a respective plane disposed

orthogonally to the long axis; and

advancing first the shank and then the head of the bone screw into the hole via

threaded engagement of the shank with the bone such that a portion of the bone near

the head is engaged by two or more of the shoulders and is urged toward a portion of

the bone near the shank.

29. (Canceled) (Canceled)

31. (Previously Presented) The method of claim 28, wherein the step of

forming a hole includes a step of forming a bore and a counterbore, and wherein the

step of advancing disposes the head and the shank at least substantially in the

counterbore and the bore, respectively.

32. (Previously Presented) The method of claim 28, wherein the step of

forming a hole is performed by the step of advancing.

33. (Previously Presented) The method of claim 28, wherein the portion of the

bone near the head and the portion of the bone near the shank are separated by a

fracture in the bone.

34. (Currently Amended) The method of claim 5, wherein the step of selecting

a bone screw includes a step of selecting a bone screw in which one or more of the

shoulders slope radially outward, flare generally toward the direction of advancement

into bone.

35. (Currently Amended) A method of compressing a bone, comprising:

selecting a bone screw including

a shank including a thread disposed externally for threaded engagement

with bone, the shank defining a long axis and a direction of advancement into

bone, and

a head connected to the shank and including a plurality of spaced

shoulders of different diameter, each shoulder facing generally toward the

direction of advancement and extending partially or completely around the long

axis in a respective path defining a plane; and

installing the bone screw as a unit in a bone such that a portion of the bone near

the head is engaged by two or more of the shoulders and is urged toward a portion of

the bone near the shank.

36. (Previously Presented) The method of claim 35, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which each

shoulder follows a respective path defining a plane oriented orthogonally to the long

axis.

37. (Previously Presented) The method of claim 35, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which each

shoulder follows a respective path corresponding to at least an arc of a circle.

38. (Previously Presented) The method of claim 35, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which each

shoulder extends completely around the long axis in a closed loop.

39. (Currently Amended) The method of claim 35, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which each

shoulder slopes radially outward, flares generally toward the direction of advancement

into bone.

40. (Previously Presented) The method of claim 35, wherein the step of

selecting a bone screw includes a step of selecting a bone screw in which the head

includes at least one generally cylindrical segment disposed at least partially between a

pair of the shoulders.